

Trey Cluff

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Summary

Front-end developer with a strong background in Svelte, Vue, Processing (P5.js), Godot, and Typescript. I love making refined interactive experiences such as a 15 foot tall community mood ring sculpture installed on Purdue's campus, a natural language query tool for Fathomnet, holographic museum prototypes, and quirky web apps / video games. I am eager to leverage skills in front-end development to create engaging and innovative solutions.

Work Experience

Systecon North America

Front-end Developer

Aug 2024 - Present

Arlington VA

- Upgraded an outdated Vue2 application to Vue3 and implemented unit testing, linting, and formatting standards, enhancing code quality and maintainability
- Assisted in preparing the company for a CMMC level 2 audit by enhancing security protocols and documentation, resulting in a 200% increase in the self-assessed score within 3 months

Purdue Polytechnic Institute

Graduate Research Assistant

Aug 2023 - Dec 2023

West Lafayette IN

- Developed a chat-based interface using SvelteKit and Typescript for a research team, which improved user interaction with the Fathomnet database through a custom natural language interface in collaboration with MBARI
- Prototyped effective design patterns and integrated event streams to connect the Langchain, GPT-3.5 turbo, and Django back end to the Svelte front end, enhancing data accessibility and user experience

Iron Mountain

3D Innovation Developer

May 2023 - Aug 2023

Remote

- Developed a virtual prototype for an immersive museum experience using Unity and user-centered design tools, which enhanced customer engagement
- Created user journey maps, brainstormed user personas, and scripted C# for virtual exhibits. Constructed the virtual museum and UI in the Unity editor

Purdue Polytechnic Institute

Graduate Teaching Assistant

Jul 2022 - May 2023

West Lafayette IN

- Instructed lab sessions for CGT 141, covering HTML, CSS, and JavaScript, using tools like Wordpress and Figma to enhance learning
- Graded assignments and provided support during lab and office hours, improving student understanding and engagement

Education

Purdue University

Master of Science - MS, Computer Graphics

Aug 2021 - Dec 2023

West Lafayette IN

- **GPA:** 3.81
- **Coursework:** Open GL, Unity, Unreal, XR, Interaction Design, UX/UI

Purdue University

Bachelor's degree, Web Programming and Design

Aug 2019 - May 2022

West Lafayette IN

- **GPA:** 3.66
- **Coursework:** HTML, CSS, JS, PHP, C++, Figma

Skills

- Project Planning, Communication, Team Leadership, Node.js, Three.js, AR/VR, Project Management, User Interface Design, TypeScript, Svelte, Unity, Blender, User-centered Design, HTML5, Godot, Python, Figma

Projects

StairWELL | <https://convocations.purdue.edu/stairwell/>

May 2022 - Oct 2023

Purdue

West Lafayette IN

- Large scale interactive art exhibit exploring how students take time to self reflect. Created in collaboration with Purdue Convos, Recwell, CAPS, and Polytechnic.
- I developed the visualization and client application as a part of my Master's Thesis. I used Svelte, P5.js, Redis, and Node.js
- I was also integral to the storytelling of the project. I helped define the main objectives and communicated those to investors and stakeholders.